Chemistry Report for Case # P-18-0227

General

Submitter: [redacted]

Contact: [redacted] **Contact Telephone No.:** [redacted]

TS No.: KAL001

Chemist: Lin, D. **Contractor Support:** Y

PV Init (kg/yr): [redacted] **PV Max (kg/yr):** [redacted]

Binding Option: ☐ **Exposure-Based Review:** ☑

Manufacture: ☑ **Import:** ☐

CAS Number:87-73-0

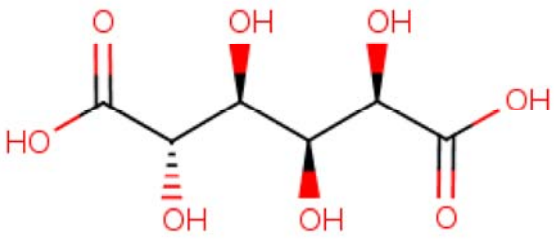
Chemical Name:D-Glucaric acid

Trade Name:KGA50 (product containing the notified substance at 35-60%), KGAP

IES Order:436202

Generic Name:not CBI

Chemical Structure



Physical Chemical Properties

Molecular Formula:C6 H10 O8 **Molecular Weight:**210.14

% < 500:	**% < 1000:**
MP: [redacted]	**MP Estimate:**
BP:	**BP Pressure:**
BP Estimate: [redacted]	
VP (Torr):	**VP Estimate (Torr):** [redacted]
Water Solubility (g/L): [redacted]	**Water Soluble Estimate (g/L):**>500
Log P:	**Log P Estimate:** [redacted]
Physical State — Neat: Solid	**Physical State — Manuf:**Solid; [redacted]

Physical State — Processing: NA; Solution: [redacted] formulation

Physical State — End Use: Destroyed; Solution: PMN substance in water

Additional Chemical Info

The submitter states that the diacid structure as drawn represents the solid form of the PMN substance. In aqueous solution, the substance exists as the diacid in equilibrium with lactone forms (such as OC(=O)C(O)C1C(O)C(O)C(=O)O1). They state that this equilibrium is transient in nature, incidental to storage of the aqueous solutions, and has no commercial purpose. In addition, the end use of the aqueous solution will generally push the equilibrium back to the diacid form.

Submitted Data: [redacted]

Estimated Dat [redacted]

Estimated Data [redacted]

Estimated Data for lactone form of PMN substance [redacted]

Uses

Consumer Use? No

Use: Chemical intermediate for [redacted]

Other Uses: [redacted]

Reaction Description

[redacted]

Pollution Prevention Analysis(P2 Analysis:)

None.

Analogs

Analogs: [redacted]

Comments/Telephone Log

Artifact	Update/Upload Time
[redacted]	[redacted]